

FIG. 1

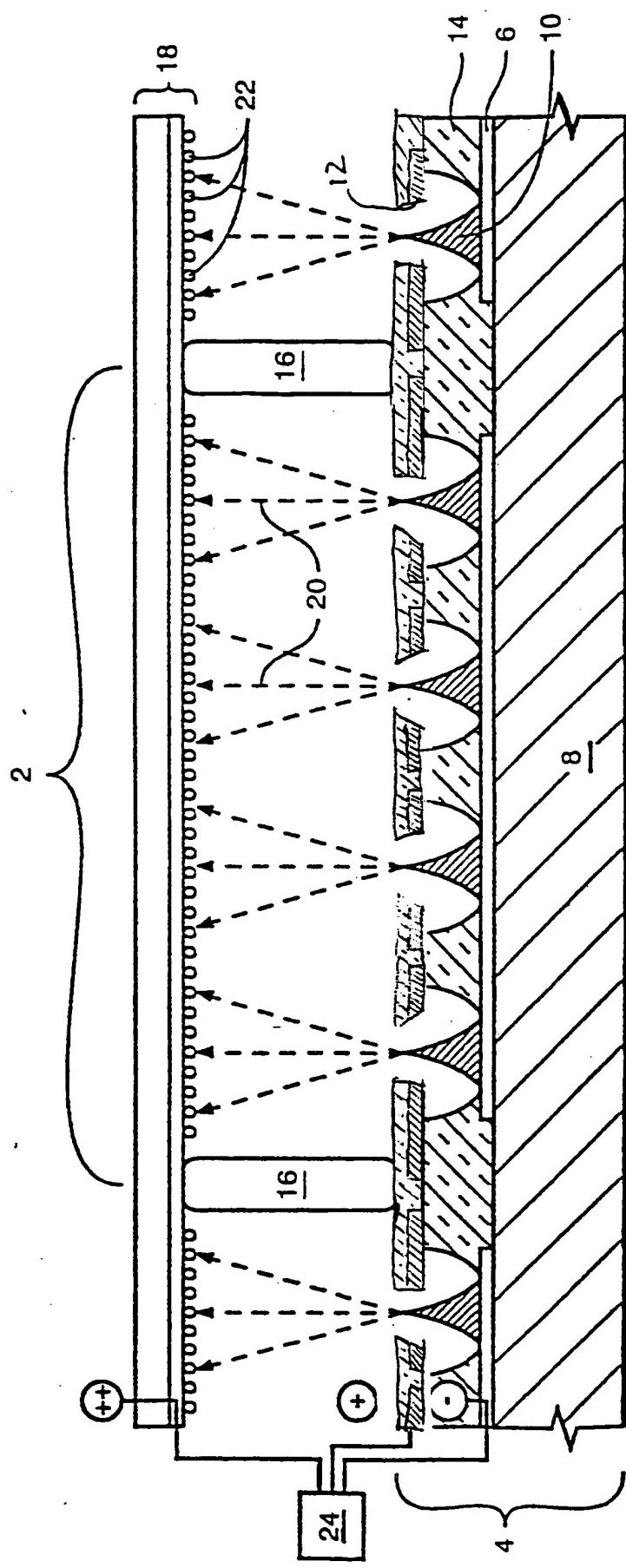
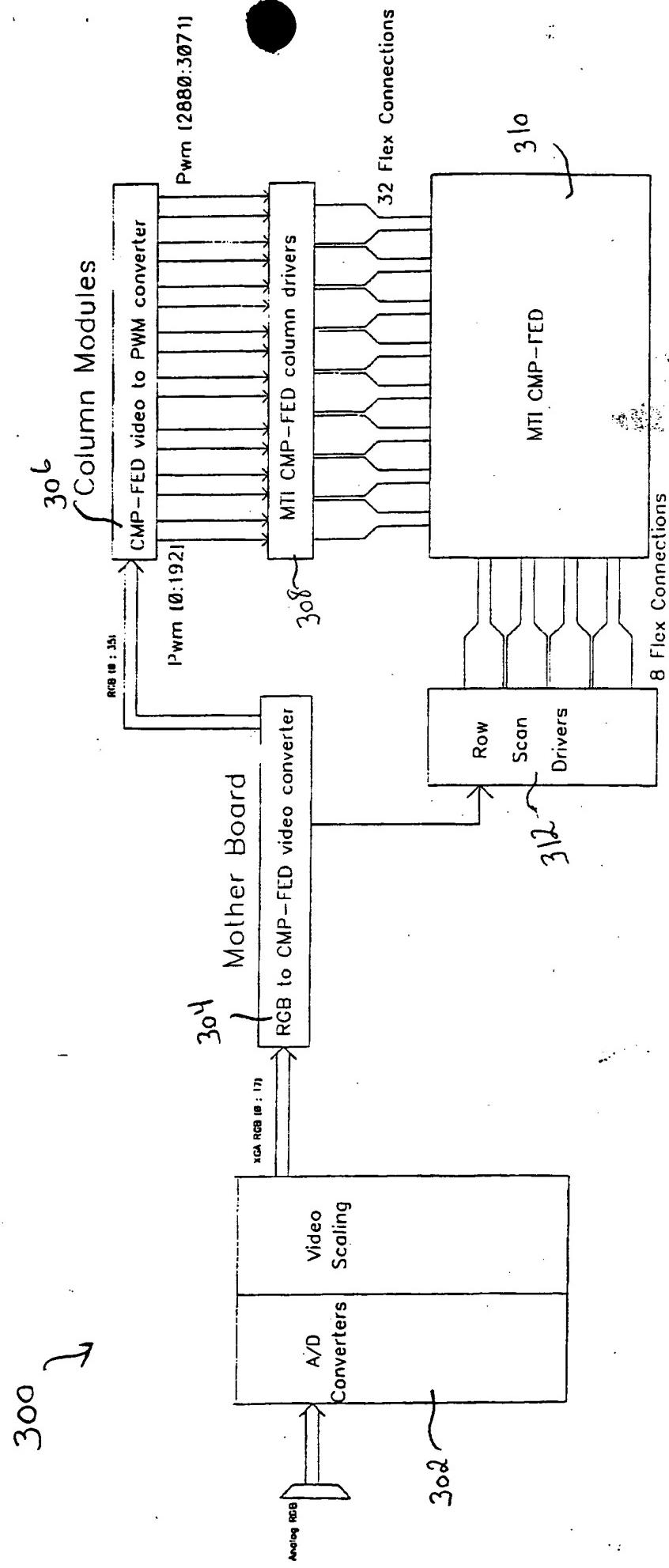


Figure 2



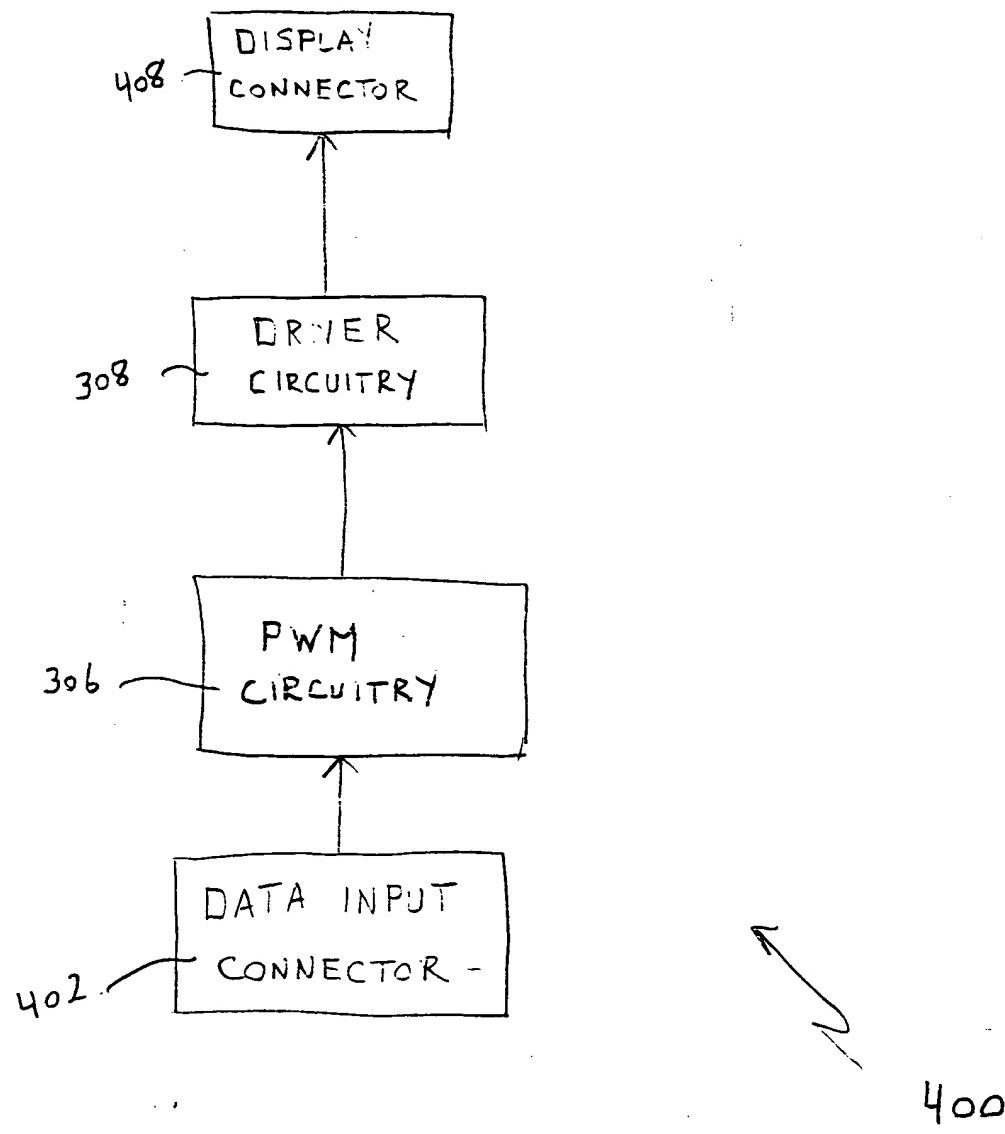


Figure 3

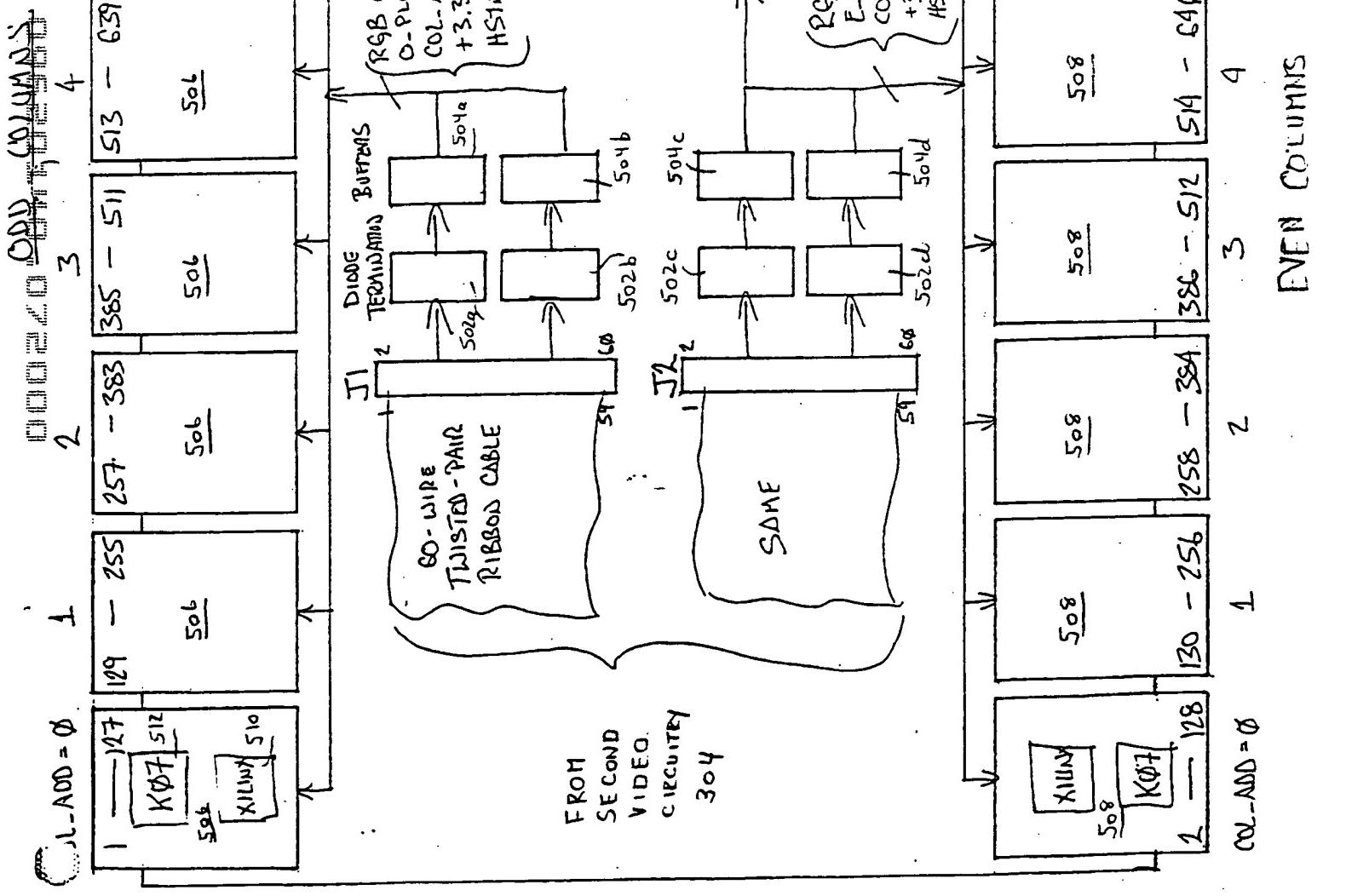
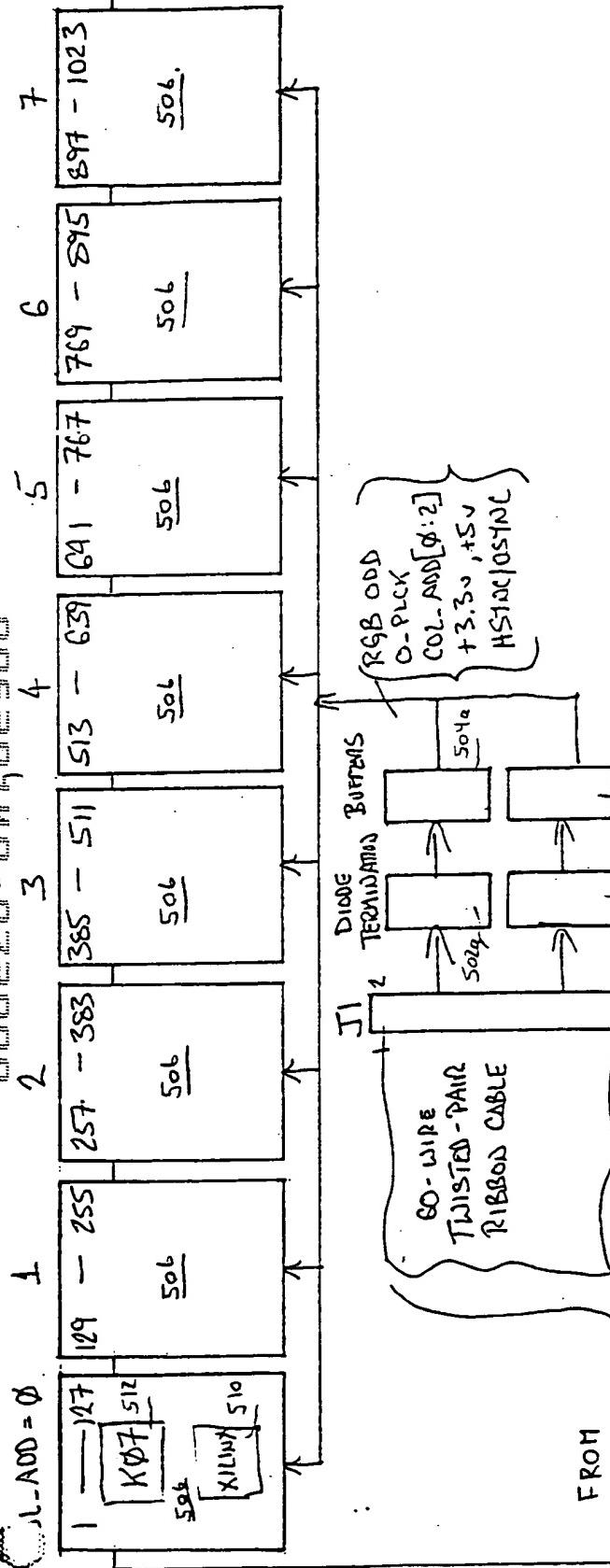


Figure 4



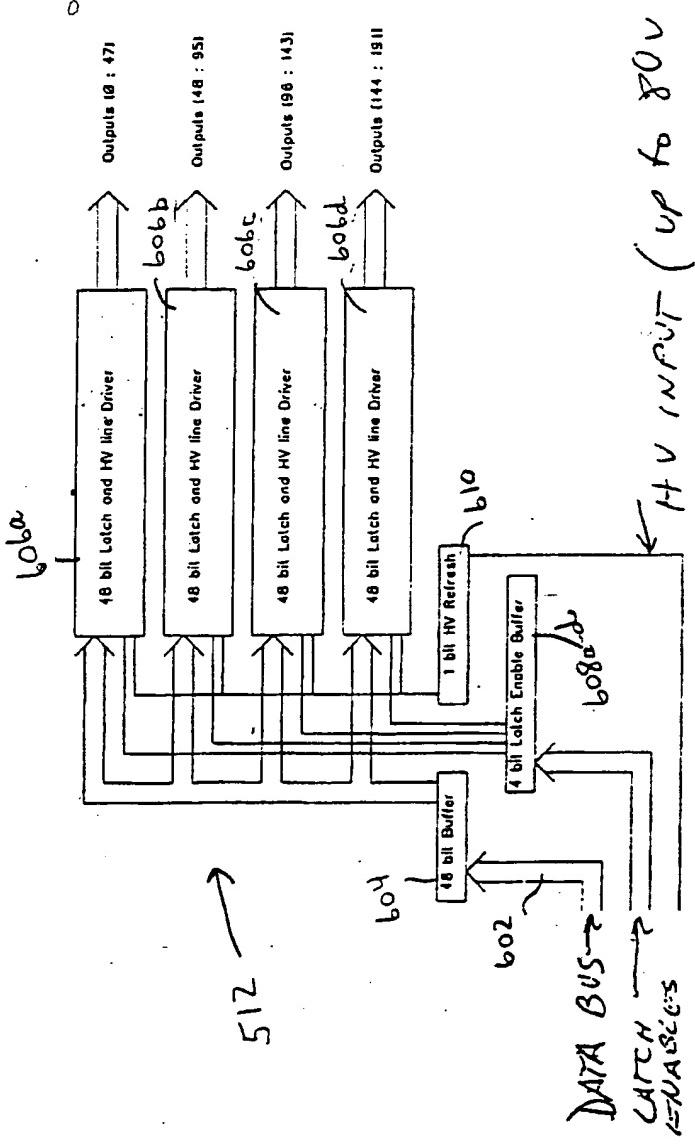


Figure 5.

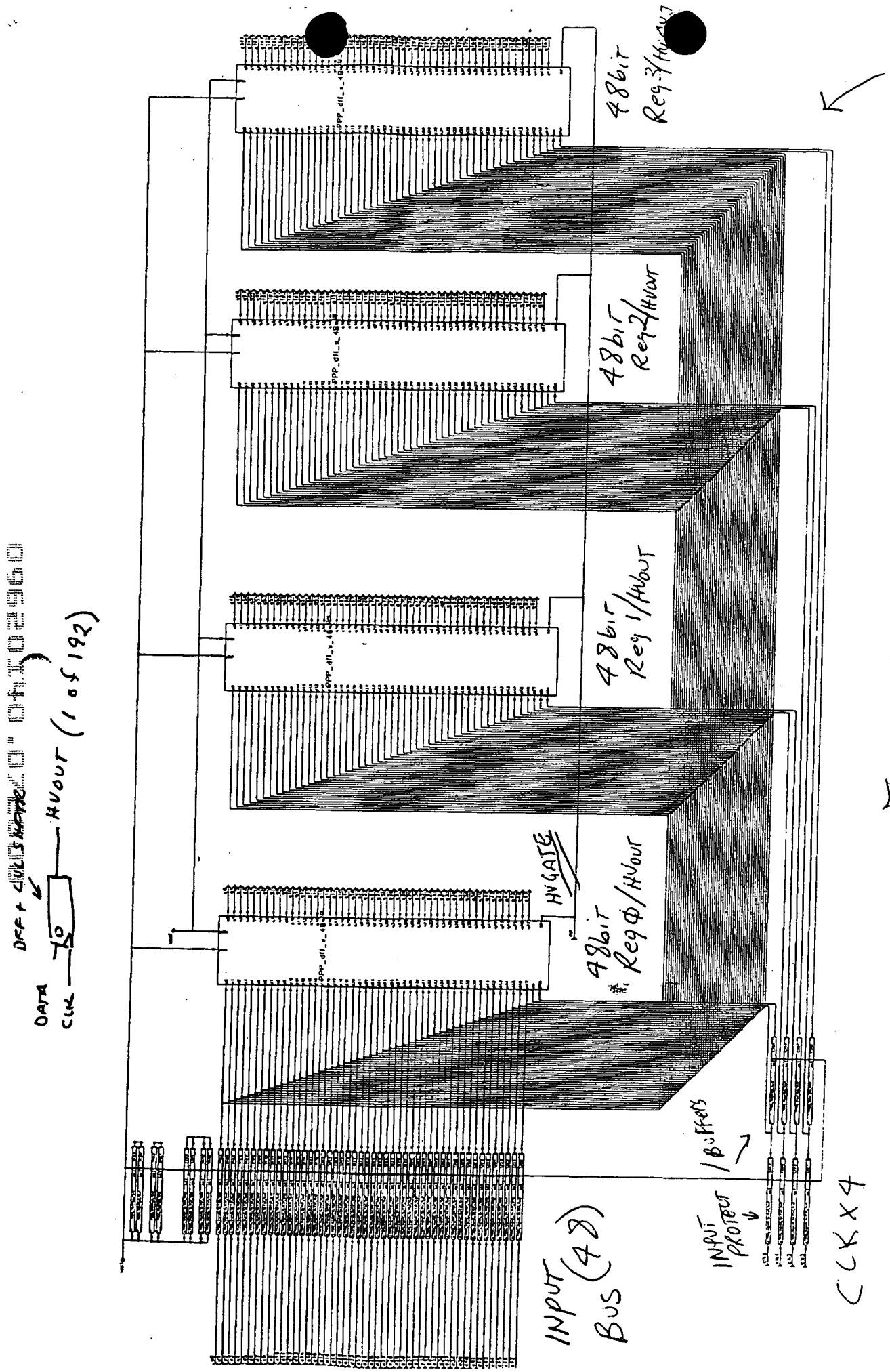
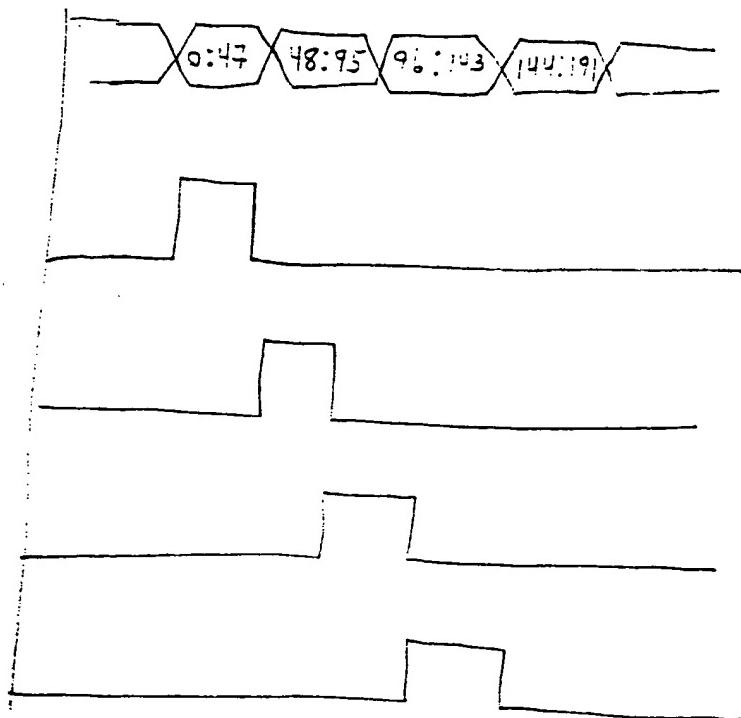


Figure 6

DATA
BUS



096203140 - 0220000

Figure 7

Video Timing (BASED ON VESA 1024x768 @ 60 Hz STANDOFF)

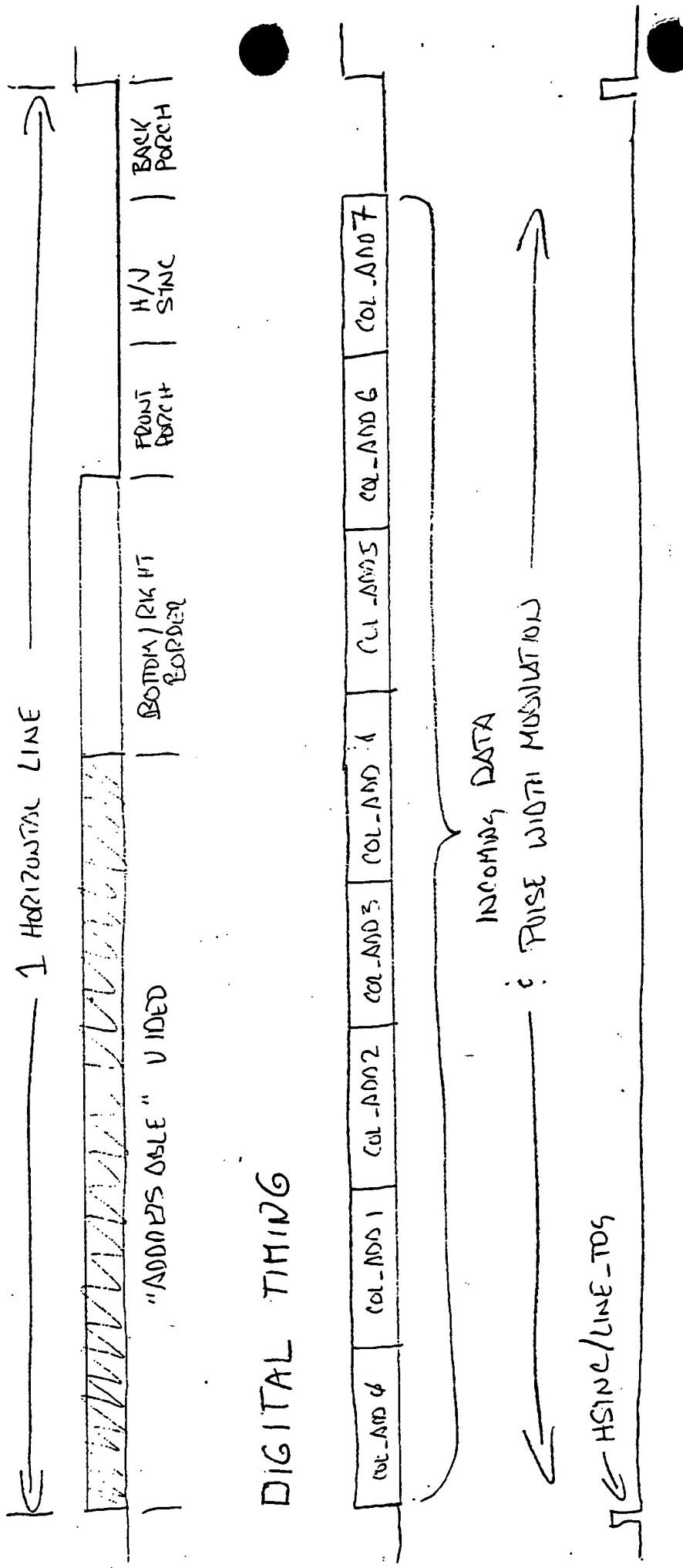


Figure 8

000220" DATA 02950

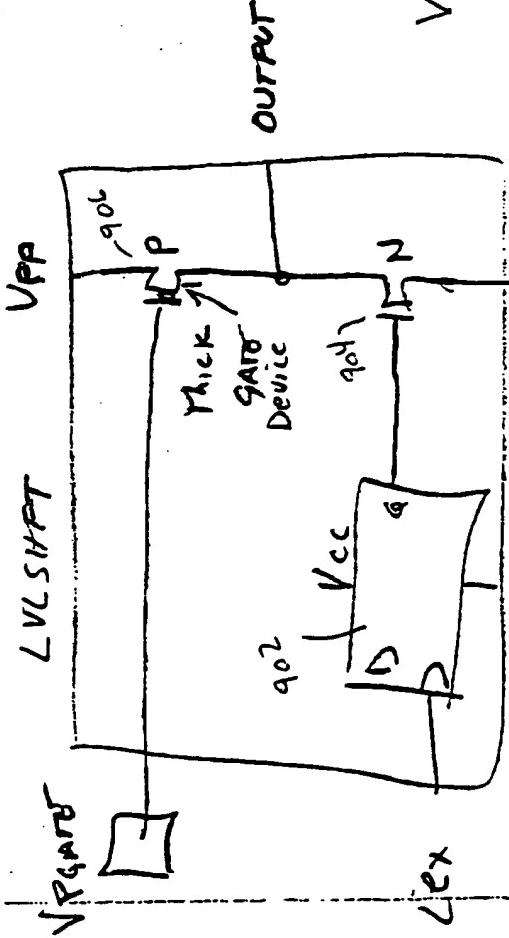


Figure 9A

Figure 9C

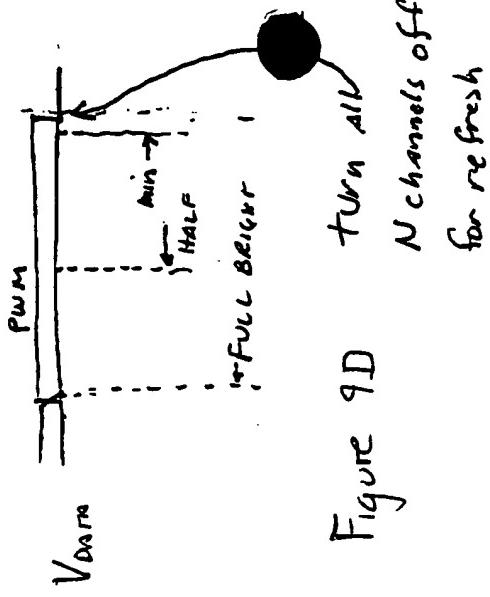


Figure 9D

turn all
N channels off
for refresh

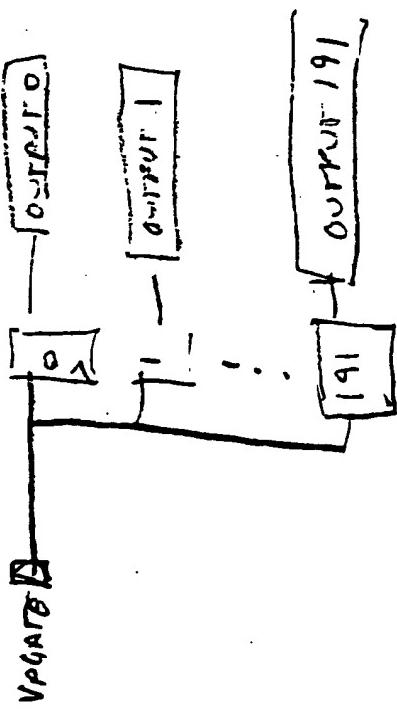


Figure 9B

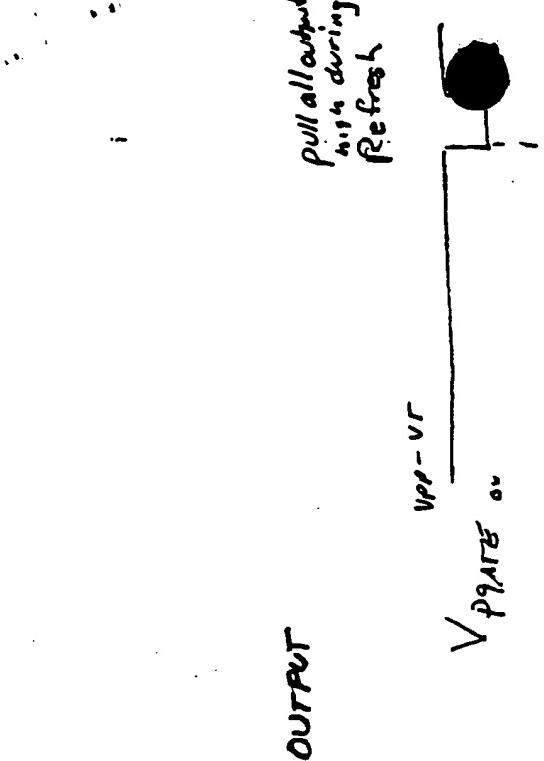


Figure 9D

pull all outputs
high during
refresh

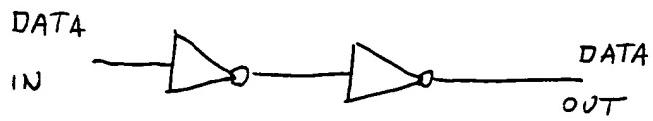


Figure 10A

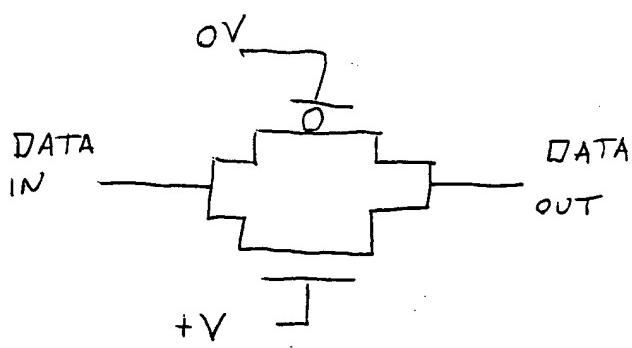


Figure 10B

$$T_{VIDEO} \leq \# \text{Rows} * \text{Refresh} = \frac{1}{768 \times 72} < 18 \mu\text{s}$$

use this full 18 μs - standard video will be about 80% or 14 μs

Fig. 11A
HS

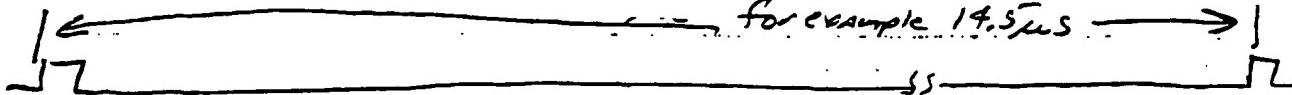


Fig. 11B
VIDEO

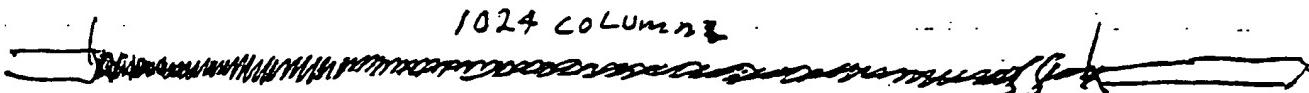


Fig. 11C
Pixel
Clock

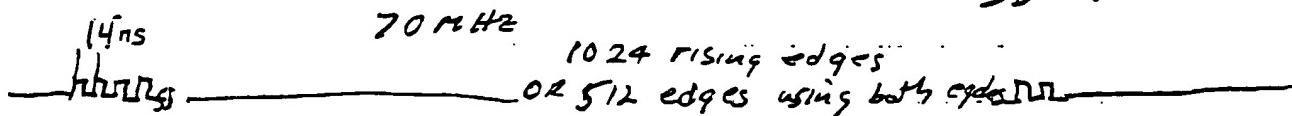


Fig. 12A
HS

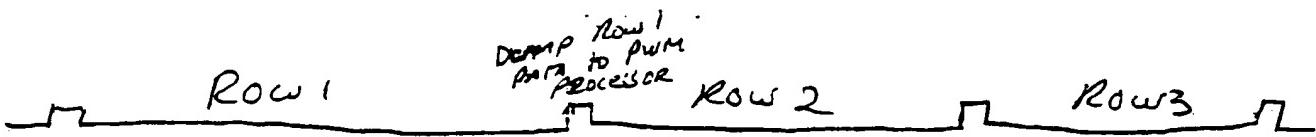
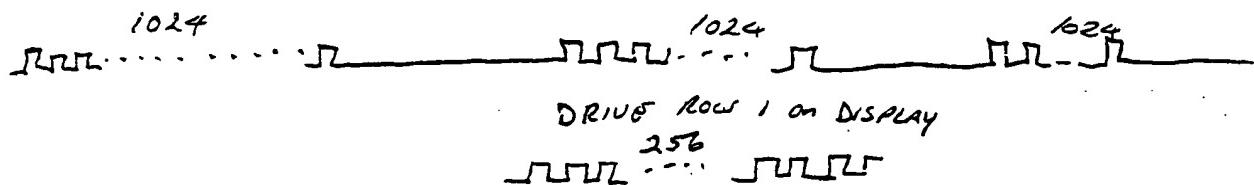


Fig. 12B
VIDEO



Fig. 12C
Pixel CLK



VIDEO TO PWM CLK
PWM

Fig. 12D

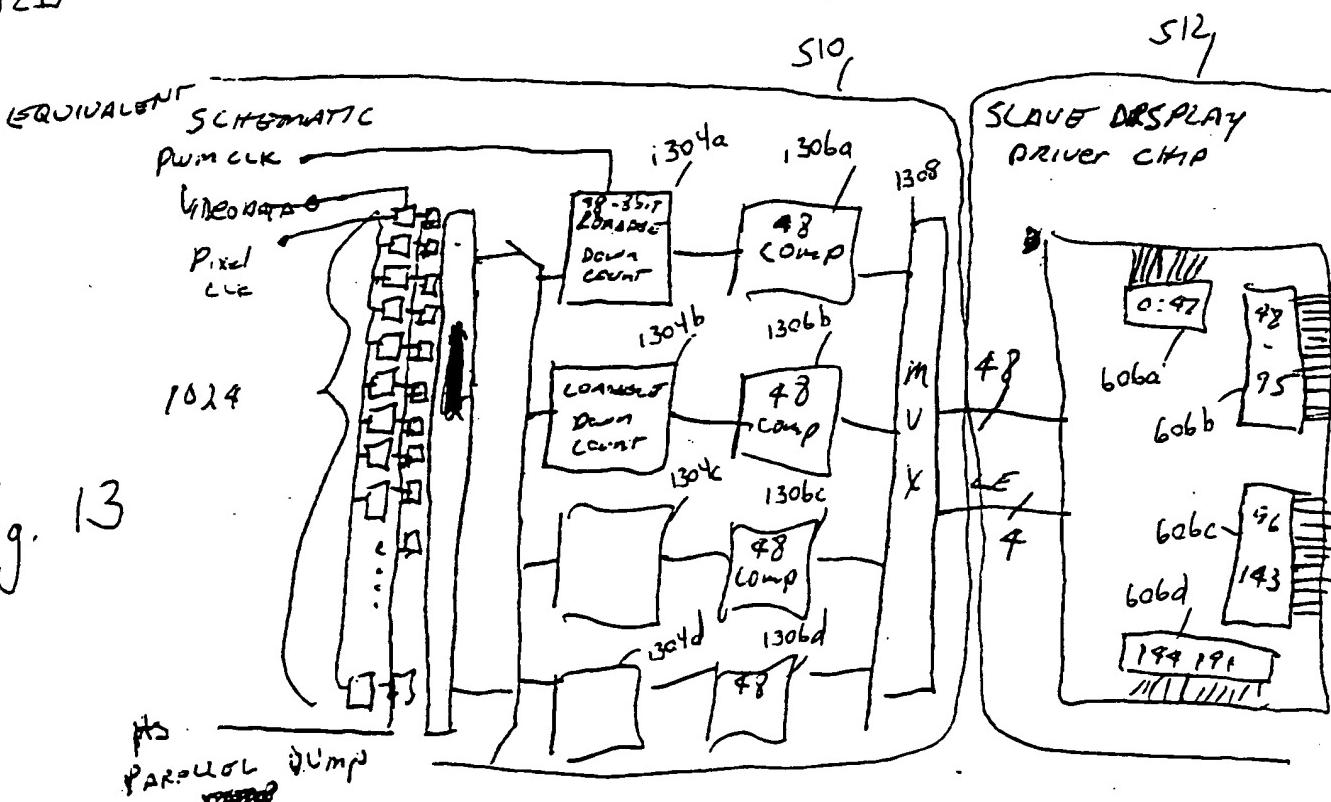


Fig. 13